

Patent Abstracts of Japan

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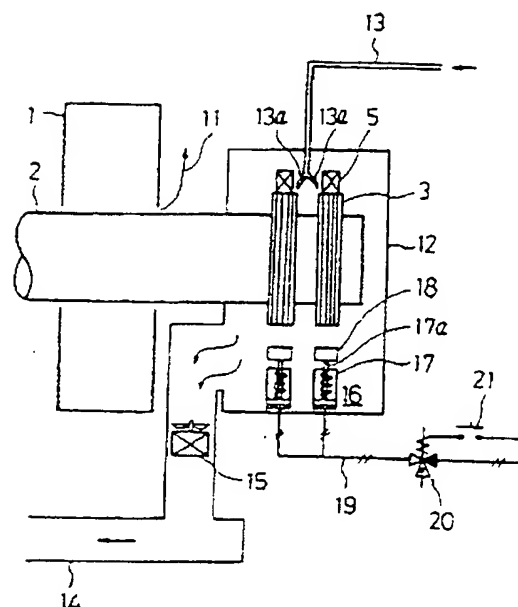
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TITLE : EXCITATION POWER SUPPLY DEVICE  
OF ROTARY ELECTRIC MACHINE



ABSTRACT : PURPOSE: To prevent a failure caused by brush powder or environmental deterioration by providing a pipe to discharge the compressed air in the vicinity of a collector ring and a carbon brush and providing a fan to a collector chamber.

CONSTITUTION: A piping 13, one end of which is connected to a compressed air generator not shown in the drawing and the other end is equipped with nozzles directed to a carbon brush 5 and a collector ring 3, is drawn into a collector chamber 12. An exhaust duct is connected and a fan 15 is provided. Further, a brush powder removal device 16 is mounted to the side opposite to the carbon brush 5. When compressed air is supplied to the nozzles 13a, the scattered brush powder from this operation is sent to the exhaust duct 14 through the fan 15. The brush powder to be adhered to the collector ring 3 is wiped out and removed by closing a switch 21, moving an air-cylinder and bringing a cloth 18 into contact with the collector ring 3. Accordingly, the brush powder does not cause any seizure of the brush 5 because no brush powder exist between the brush 5 and the collector ring 3, and the temperature rise can be prevented by cooling the brush 5.

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